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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/703,074

10/31/2000

Jose J. Garcia-Luna-Aceves

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01/24/2005

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EXAMINER

DUONG, DUC T

ART UNIT

PAPER NUMBER

2663

DATE MAILED: 01/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/703,074

Applicant(s)

GARCIA-LUNA-ACEVES ET AL.

Examiner

Duc T. Duong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,6-17,19-23,26-37,39 and 40 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

- 5) ☒ Claim(s) 1-3,6-13,21-23 and 26-33 is/are allowed.

- 6) ☒ Claim(s) 14-17 and 34-37 is/are rejected.

- 7) ☒ Claim(s) 19,20,39 and 40 is/are objected to.

- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12&17. 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. In response to the amendment filed on December 9, 2004, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 14 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Francis et al (U.S. Patent 5,331,637).

Regarding to claims 14 and 34, Francis discloses an apparatus (Fig. 1) for forwarding multicast packets in a network comprising a plurality of routers r101-120 in a multicast group, wherein each of the plurality of routers reports routing tree information (join request) to other routers of said plurality of routers, said apparatus comprising a first router r102 (Fig. 6 col. 8 lines 34-36), said first router including a multicast forward cache 102-50 (Fig. 8 col. 8 lines 45-48), said first router, further for receiving a multicast packet from a second router r101 in a network (Fig. 6 col. 8 lines 31-33), said multicast packet from a selected source s101 and for a selected multicast group (Fig. 6 col. 8 lines 1-4), determining, based at least in part, on said control information (multicast address) and the routing tree information (join request) reported by said second router (Fig. 6 col. 8 lines 8-10), if said multicast packet is to be forwarded by said first router

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(Fig. 6 col. 8 lines 42-43) , and wherein said first router, in response to a positive determination that said multicast packet is to be forwarded, forwards said multicast packet to at least a third router r104 (Fig. 6 col. 8 lines 45-48) and wherein said first router creates an entry 102-51 indicating that a multicast packet from said selected source and said selected multicast group should forwarded after making a positive determination that said multicast packet is to be forwarded (Fig. 8 col. 8 lines 45-48).

Regarding to claims 15 and 35, Francis discloses the multicast packet includes an address of the multicast group (col. 8 lines 5-10).

Regarding to claims 16 and 36, Francis discloses the multicast packet includes an address of the source of said multicast packet (col. 3 lines 60-63).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 17 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Francis in view of Akahane et al (U.S. Patent 6,778,532 B1).

Regarding to claims 17 and 37, Francis discloses all the limitations with respect to claims 14 and 34, except the multicast packet includes a time value, wherein said time value is used to limit the time said multicast packet is allowed to remain in the system. However, Akahane discloses a system for multicasting packet, wherein the packet includes a packet life-time field (Fig. 3c). Thus, it would have been obvious to a

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person of ordinary skill in the art to employ a time value in a packet to limit the time said multicast packet is allowed to remain in the system for the purpose of preventing unwanted packets build-up that could cause network congestion.

Allowable Subject Matter

6. Claims 19, 20, 39, and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Claims 1-3, 6-13, 21-23, and 26-33 are allowed.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-Th (9:00 AM-6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).